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(54) **Aluminium alloy extruded material for automotive structural members and production method thereof**

(57) An aluminum alloy extruded material for automotive structural members, which contains 2.6 to 5 wt% of Si, 0.15 to 0.3 wt% of Mg, 0.3 to 2 wt% of Cu, 0.05 to 1 wt% of Mn, 0.2 to 1.5 wt% of Fe, 0.2 to 2.5 wt% of Zn, 0.005 to 0.1 wt% of Cr, and 0.005 to 0.05 wt% of Ti, and satisfies relationship of the following expression (I),

$(\text{Content of Mn (wt\%)}) + 0.32 \times (\text{content of Fe (wt\%)}) +$

$0.097 \times (\text{content of Si (wt\%)}) + 3.5 \times (\text{content of Cr$

$(\text{wt\%})) + 2.9 \times (\text{content of Ti (wt\%)}) \leq 1.36 \quad (I)$

with the balance being made of aluminum and unavoidable impurities. A method of producing the aluminum alloy extruded material for automotive structural members, which comprises cooling with a refrigerant from outside of a die-exit side, at the time of extrusion.

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EUROPEAN SEARCH REPORT

Application Number
EP 00 12 7251

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TECHNICAL FIELDS
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C22C
B21C

Place of search

MUNICH

Date of completion of the search

18 October 2001

Examiner

Patton, G

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